



## SEQUENCE LISTING

<110> Mulligan, John T.  
Tabone, John C.

<120> METHODS FOR IMPROVING THE SEQUENCE  
FIDELITY OF SYNTHETIC DOUBLE-STRANDED OLIGONUCLEOTIDES

<130> 340078.401

<140> 09/872,761

<141> 2001-06-01

<160> 15

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 205

<212> DNA

<213> Artificial Sequence

<220>

<223> 205 base pair segment of the lacI gene sequence  
synthesized using overlapping double-stranded  
oligonucleotides

<400> 1

aattcataaa ggagatatca tatgaaaccg gtaacgttat acgacgtcgc tgaatacgcc 60  
ggcgtttctt accagaccgt ttctagagtg gttaaccagg cttcacatgt tagcgctaaa 120  
accgggaaa aagttgaagc tgccatggct gagtcaact acatcccgaa ccgtgttgcg 180  
cagcagctgg ctggtaaaca aagct 205

<210> 2

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Modified oligonucleotides containing 2,6  
diaminopurine

<221> modified\_base

<222> (11)...(11)

<223> n = 2,6-diaminopurine

<400> 2

accgtttcta nagtgggttaa ccagg

25

<210> 3

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Modified oligonucleotides containing 2,6  
daminopurine

<221> modified\_base

<222> (13)...(13)

<223> n = 2,6-daminopurine

<400> 3

accgtttcta gantgggtaa ccagg

25

<210> 4

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Modified oligonucleotides containing 2,6  
daminopurine

<221> modified\_base

<222> (8)...(8)

<223> n = 2,6-daminopurine

<400> 4

ggaaaaantt gaagctgcc a tggct

25

<210> 5

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> Modified oligonucleotides containing 2,6  
daminopurine

<221> modified\_base

<222> (3)...(3)

<223> n = 2,6-daminopurine

<400> 5

ttncgcagca gctggctggt aaacaa

26

<210> 6

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Modified nucleotides containing uracil.

<400> 6

tgaagcctgg ttaaccactu tagaa 25

<210> 7  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Modified nucleotides containing uracil.

<400> 7  
 agctcagcca tggcagcttc aautt 25

<210> 8  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Modified nucleotides in which uracil was substituted for adenosine.

<400> 8  
 agctcagcca tggcagcttc auctt 25

<210> 9  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Modified nucleotides in which uracil was substituted for adenosine.

<400> 9  
 ttgcgcugca gctggctggt aaacaa 26

<210> 10  
 <211> 197  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Fragment of the lacI gene sequence.

<400> 10  
 cataaaggag atatcatatg aaaccggtaa cgttatacga cgtcgctgaa tacgccggcg 60  
 tttcttacca gaccgtttct agagtgggta accaggcttc acatgttagc gctaaaaccc 120  
 gggaaaaagt tgaagctgcc atggctgagc tcaactacat cccgaaccgt gttgcgcagc 180  
 agctggctgg taaacaa 197

<210> 11  
 <211> 48  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Control synthetic 48 bp sequence

<400> 11

attcgccctt tgccactaag caccagcgaa acggtactta ccgacacg 48

<210> 12

<211> 45

<212> DNA

<213> Artificial Sequence

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<223> 48mer containing synthesis byproducts

<400> 12

tcgccctttg ccactaagca ccagcgaaac ggtactaccg acacg 45

<210> 13

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> 48mer containing synthesis byproducts

<400> 13

attcgccctt tgccactaag caccagcgaa acggtacttt accgacacg 49

<210> 14

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> 48mer containing synthesis byproducts

<400> 14

attcgccctt tgccactaag caccagcgaa acggtacttg ccgacacg 48

<210> 15

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> 48mer containing synthesis byproducts

<400> 15

attcgccctt tgccactaag caccagcgaa acggtactta gcgacacg 48